

A. G. Contract No. KR982481TRN  
ADOT ECS File: JPA 98-194  
ASPB No. ISA 99-032  
Project No. TEA-900-0(191)P  
TRACS No : H5143 01D/02D  
Section: AZSITE Electronic Database  
Archaeological Sites & Surveys

INTERAGENCY AGREEMENT  
BETWEEN  
THE DEPARTMENT OF TRANSPORTATION  
AND  
THE ARIZONA STATE PARKS BOARD

THIS AGREEMENT is entered into 25 March, 1999,  
between agencies of the State of Arizona, to wit; the DEPARTMENT  
OF TRANSPORTATION (the "DOT") and the ARIZONA STATE PARKS BOARD,  
acting for and on behalf of the ARIZONA STATE HISTORIC  
PRESERVATION OFFICE, (the "Parks Board").

I. RECITALS

1. The DOT is empowered by Arizona Revised Statutes Section 28-401 and 28-334 to enter into this agreement and has by resolution, a copy of which is attached hereto and made a part hereof, resolved to enter into this agreement and has delegated to the undersigned the authority to execute this agreement on behalf of the DOT

2. The Parks Board is empowered by Arizona Revised Statutes Section 41-511.05 to enter into this agreement and has delegated to the undersigned authority to execute this agreement on behalf of the Parks Board.

3. Congress has authorized appropriations for, but not limited to, the construction of streets and primary, feeder and farm-to-market roads; the replacement of bridges; the elimination of roadside obstacles; and the work such as is outlined herein.

4. Such project has been selected by the Parks Board and submitted to the Federal Highway Administration (FHWA) for its approval.

NO 23060  
Filed with the Secretary of State  
Date Filed: 03/25/99  
Betsy Bayless  
Secretary of State  
By Dick V. Greenwood

5. The obligation of the DOT in the project is in the acquisition of federal funds for the use and benefit of the Parks Board by reason of federal law and regulations under which funds for the project are authorized to be expended

6. The State, in order to obtain federal funds for the design of the project, is willing to provide funds to match federal funds in the ratio required or as finally fixed and determined by FHWA.

7. The work embraced in this agreement and the estimated cost is as follows: Establish Database and Electronic Archives of Archaeological Sites and Surveys

Estimated Project Cost	\$ 227,000.00
Federal Funds @ 94.3%	\$ 214,061.00
State Funds @ 5.7%	\$ 12,939.00

THEREFORE, in consideration of the mutual covenants expressed herein, it is agreed as follows:

## II. SCOPE OF WORK

1. The DOT shall submit a program containing the aforementioned project to FHWA with the recommendation that it be approved for design.

If such project is approved by FHWA and the funds are available for the project, the Parks Board with the aid and consent of FHWA will proceed with the project, such project to be performed, completed, accepted and paid for in accordance with the requirements of Highways Division, Arizona Department of Transportation. The DOT will enter into a Project Agreement with FHWA covering the work embraced in said contract and will request the maximum federal funds available

2. Prior to the commencement of work, the State shall set aside sufficient funds in an amount necessary to match federal funds in the ratio required.

3. The DOT will reimburse the Parks Board with federal funds for work addressed under this agreement at 94.3% of the project cost.

4. The Parks Board will provide any required preliminary work required for the project. As required by the FHWA, the DOT will provide review of the project work and related documents, and when appropriate provide comments which will be incorporated into the documents.

5. The Parks Board may request the DOT, as authorized agent for the Parks Board, and all at State expense, to perform certain work and prepare certain documents required by the Federal Highway Administration to qualify certain projects for and to receive Federal funds. Such work may consist of, but is not specifically limited to, the review and approval of the database development, the preparation of the analysis requirements for documentation of determinations; review of reports, design plans, maps, and specifications; geologic materials testing and analysis; right-of-way related activities (when specifically authorized by, for and on behalf of the State, and at no cost to the DOT) and such other related tasks essential to the achievement of the objectives of this agreement.

6. Should some unforeseen conditions or circumstances increase the cost of said work required, by a change in the extent or scope of the work called for in this agreement, the DOT shall not be obligated to incur any expenditure in the project without prior approval of the DOT. Upon completion of the work and associated database and products contemplated herein, the DOT shall have reasonable access thereto for a period of 10 years for the date of completion of the database, without cost or access fees.

### III. MISCELLANEOUS PROVISIONS

1. The Parks Board assumes full responsibility for the work, reports, the products and database in connection therewith, cost over-runs and claims. It is understood and agreed that the DOT's participation is confined solely to securing federal aid; that any damages arising from carrying out, in any respect, the terms of this agreement or any modification thereof, shall be solely the liability of the Parks Board. Title to all documents, reports, databases and other deliverables prepared or obtained by the Parks Board of this agreement shall rest jointly with the federal government, the DOT and the Parks Board.

2. This agreement shall remain in force and effect until completion of the work herein embraced.

3. This agreement shall become effective upon execution by the parties hereto.

4. This agreement shall be cancelled in accordance with Arizona Revised Statutes Section 38-511.

5. The provisions of Arizona Revised Statutes Section 35-214 are applicable to this agreement.

6. In the event of any controversy which may arise out of this agreement, the parties hereto agree to abide by required arbitration as is set forth for public works contracts in Arizona Revised Statutes Section 12-1518.

7. All notices or demands upon any party to this agreement relating to the agreement shall be in writing and shall be delivered in person or sent by mail addressed as follows:

Department of Transportation  
Joint Project Administration  
205 S. 17th Avenue - 616E  
Phoenix, AZ 85007  
(602) 255-8369

Arizona State Parks Board  
Business Services Unit  
1300 W. Washington Rm 220  
Phoenix, AZ 85007  
(602) 542-6937

8. The parties agree to comply with all applicable state and federal laws, rules, regulations and executive orders governing equal employment opportunity, immigration, nondiscrimination and affirmative action.


9. The parties recognize that performance under this agreement may be dependent upon the appropriation of funds by the State Legislature of Arizona. Should the Legislature at any time fail to appropriate the necessary funds for such performance, the Parks Board, by written notice to the DOT, may cancel this Agreement

IN WITNESS WHEREOF, the parties have executed this agreement the day and year first above written

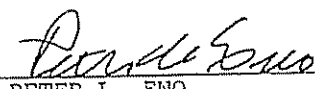
STATE OF ARIZONA

ARIZONA STATE PARKS BOARD

DEPARTMENT OF TRANSPORTATION

By   
KEN TRAVOUS  
Executive Director

3/12/99  
Date

By   
PETER L. ENO  
Contract Administrator

                      
Date



JANET NAPOLITANO  
ATTORNEY GENERAL

STATE OF ARIZONA  
OFFICE OF THE ATTORNEY GENERAL  
1275 WEST WASHINGTON, PHOENIX 85007-2997

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Fax: (602) 542-3646  
MAIN PHONE : 542-5025  
TELECOPIER : 542-4085

INTERGOVERNMENTAL AGREEMENT  
DETERMINATION

A.G. Contract No KR98-2481TRN, an agreement between public agencies, has been reviewed pursuant to A.R.S. § 11-952, as amended, by the undersigned Assistant Attorney General who has determined that it is in the proper form and is within the powers and authority granted to the State of Arizona.

No opinion is expressed as to the authority of the remaining parties, other than the State or its agencies, to enter into said agreement.

DATED March 17, 1999.

JANET NAPOLITANO  
Attorney General

A handwritten signature in cursive script, reading "James R. Redpath", is written over a horizontal line.

JAMES R. REDPATH  
Assistant Attorney General  
Transportation Section

IRR:et/19895

Enc.

ELECTRONIC ARCHIVE  
OF ARCHAEOLOGICAL SITES AND SURVEYS  
ALONG PROPERTIES UNDER ADOT JURISDICTION  
IN ARIZONA

Project # TEA 900-0(191)P  
TRACS # 999 SW 000 H5143 02D

DESIGN CONCEPT REPORT

SPONSOR  
ARIZONA STATE PARKS  
1300 WEST WASHINGTON  
PHOENIX, AZ 85007

Exhibit A to JPA 98-194

## B. INTRODUCTION

This project will create spatially referenced databases for archaeological site and survey data along ADOT highway corridors. The spatial data themes will be integrated into a state-wide archaeological sites and surveys database (AZSITE) accessible over the internet to ADOT personnel and contractors engaged in federal and state historic preservation activities. Spatial data in an electronic GIS will allow rapid access to cultural resource information by ADOT personnel and contractors to speed highway planning for construction, and maintenance. The database and server will reside at the Department of Anthropology, Arizona State University, with replicated servers at the Arizona State Museum, the State Historic Preservation Office, and the Museum of Northern Arizona.

Project costs to be provided by the ADOT Transportation Enhancement Fund will be \$237,000. This is approximately half the total cost of the project (see Background for other funding sources).

The project will take two (2) years from inception, estimated at March, 1999, through February, 2001.

Principal agencies and investigators are:

Agency	Principal Investigator	Address	Telephone/FAX/e-mail
SHPO	Carol Griffith, Deputy State Historic Preservation Officer	Arizona State Parks 1300 West Washington Phoenix, AZ 85007	602-542-7141 FAX 602-542-4180 cgriffith@pr.state.az.us
ASM	Beth Grindell, Ph.D. Research Specialist, Sr.	Arizona State Museum The University of Arizona Box 210026 Tucson, AZ 85721-0026	520-621-1271 FAX 520-621-2976 grindell@u.arizona.edu
ASU	Peter McCartney, Ph.D. Res. Asst. Professor	Archaeological Research Institute Arizona State University Box 872402 Tempe, AZ 85287-2402	602-965-6791 FAX 602-965-7671 peter.mccartney@asu.edu
MNA	David Wilcox, Ph.D. Sr. Research Archaeologist	Museum of Northern Arizona 3101 N. Fort Valley Road Flagstaff, AZ 86001	520-774-5211 FAX 602-779-1527 dwilcox@mna.mus.az.us

## C. BACKGROUND

This project is a phase of the AZSITE project, sponsored by a consortium of state and private agencies in Arizona (see Introduction for principal agencies). The project covers 6,100 miles of state and 15,000 miles of federal highways under ADOT jurisdiction. Data layers will be constructed to include a minimum 0.5-mile wide corridor on either side of highway centerlines. The project will also include ADOT materials pits and maintenance yards that have been surveyed in compliance with cultural resource management legislation. The total area represents almost 20% of Arizona's land surface.

Previous activities include a planning phase, funded by the National Center for Preservation Technology and Training (NPS) and a pilot project, funded through the Arizona State Parks Heritage Fund, administered by the State Historic Preservation Office. Equipment and software for the pilot study were provided by the Archaeological Research Institute, ASU. Additional equipment costs have been provided to ASM by the Office of the Vice President for Research, UA, and the Director, ASM. Data from lands managed by the US Bureau of Land Management and the US Forest Service are being added under funding from the Federal Geographic Data Committee and the US BLM. Matching funds are being provided by SHPO, MNA, ASU, UA.

Previous and current funding has been provided by the following sources:

Granting agency	Date	Recipient	Purpose	Amount
National Center for Preservation Technology and Training, NPS	1996-7	ASM	Planning grant and conference	\$36,575
Arizona Heritage Funds, Arizona State Parks	1996	ASU	Pilot Phase 1	\$20,000
Vice President for Research, UA	1996	ASM	Server and software	\$7,500
Arizona Heritage Funds, Arizona State Parks	1997	ASU/ASM/MNA	Pilot Phase 2	\$59,500
US BLM	1997	SHPO	BLM data entry	\$24,000
Federal Geographic Data Committee	1998	ASM/ASU/MNA (through BLM)	Benefits assessment	\$39,660
US BLM	1999	SHPO	BLM data entry	\$27,000
Arizona Heritage Funds, Arizona State Parks	1999	ASM/ASU/MNA	Data entry	\$54,000
				\$268,235.00



#### D. SCOPE

The project includes four distinct activities: (1) development of software for database query and maintenance; (2) creation and editing of spatial data layers and associated attribute data for archaeological sites and surveys; (3) installation and implementation of the database in ADOT's Environmental Planning Section; and (4) a public access web site offering a virtual tour of selected historic sites along selected Arizona highways. Activities 1, 3, and 4 will be under the control of the Archaeological Research Institute, Department of Anthropology, Arizona State University. ASM and MNA are jointly responsible for activity 2. These two agencies hold the bulk of the archaeological data associated with highway rights-of-way in Arizona. The SHPO will provide project administration.

The project does not involve any capital construction at any participating agency.

#### E. PROJECT DEVELOPMENT CONSIDERATIONS

1. Due to the nature of the work this project requires, there will be no effect on the natural environment. No waters of the U. S. are included in this project which would require a Section 404 permit. There are no hazardous materials concerns, no effects on floodplains, no effects on threatened or endangered species and no impact on waters of the U.S. associated with this project. There will be no impact on adjacent land uses. There will be no ground disturbance that would affect scenic or historic routes, or require archaeological clearance.
2. The State Historic Preservation Office, Arizona State Parks, is charged by law with maintaining an inventory of properties eligible for, or listed on the National Register of Historic Places. The State Historic Preservation Office is therefore the lead agency on this project. The nature of this project does not involve or require clearance from any Forest Service, BLM, tribal lands, railroads, irrigation companies, or major utilities.
3. Because there is no ground disturbing activity, there are no right of way requirements.
4. Because there is no ground disturbing activity, there are no utility relocation requirements.
5. No fieldwork will be necessary and the project timetable will not be constrained by seasonal consideration.
6. There will be no need for traffic control measures.
7. Since no construction is involved, alternative design criteria need not be considered.

8. The design of the AZSITE pilot project database consists of two spatially referenced data tables: prehistoric/historic sites and archaeological survey areas. Associated attribute data (such as site type, age, national register eligibility, recorder information, report information) are managed in a relational database structure based on SQL database format. The database is on Microsoft SQL Server with an ACCESS database front-end. The spatial data are being developed in ArcView 3. This project is working in tandem with the Federal Geographic Data Committee to ensure that relevant federal government metadata standards are considered and incorporated where appropriate.

System users, including ADOT, will have 3 options for accessing the database:

- 1) WWW interface. Any computer with an internet connection and a web browser will be able to use the WWW interface to the database. There are no specific hardware requirements.
- 2) SDE GIS server connection. SDE requires a Windows 95/NT or Unix platform and ArcView, ArcInfo or a customized MapObjects application. Recommended hardware will be a Pentium or RISC workstation with 32 megabytes of memory and a TCP/IP connection. Tests indicated that a 33.6 modem connection will also perform well.
- 3) ODBC database connection.

To prepare GIS data for submission to AZSITE, participants will need the AZSITE standalone database, which requires Windows 95/NT or higher, and ArcView GIS software. The standalone database contains a run-time version of MS Access software so it is not necessary to obtain this software. A digitizer or GPS device will also be necessary or site locations may be digitized from geo-referenced and rectified raster maps.

## F. OTHER REQUIREMENTS

The development of a database of sites along Arizona highway corridors is but one phase in a larger project, begun in 1995, to develop a statewide database. The planning phase has been funded by the National Center for Preservation Technology and Training (National Park Service) and the pilot project, completed in summer, 1997, has been funded by the Arizona State Parks Heritage Fund, administered by the State Historic Preservation Office. Incorporation of data from US BLM and US Forest Service files for Arizona is being funded by the Benefits Program of the Federal Geographic Data Committee and by the US BLM.

The members of the AZSITE consortium already assume some financial burden for the project and will continue to do so: ASM, ASU, SHPO and MNA currently fund full-time staff positions devoted to database development and management and it is expected that this will continue. A user fee policy will be established to provide funding for software and hardware upgrades, data validation and data entry, and ongoing training. Fees will be charged based on use of the system by contractors and land managers. The fees will be structured around an hourly charge and billed to users. Users who cannot submit electronic records but only records in paper format will be charged additional charges for data entry.

The ongoing maintenance of the system is managed by the AZSITE Consortium, four state and private agencies that have pooled resources to develop and manage a state-wide database of archaeological sites and surveys. The four agencies include the Archaeological Research Institute, Department of Anthropology, at Arizona State University, Arizona State Museum at the University of Arizona, the State Historic Preservation Office, and the Museum of Northern Arizona.

Estimated Work Schedule for Completion of Project



## G. ESTIMATED COST BY PROJECT ACTIVITY

### Estimated Cost by Item/Activity

Software development	\$15,666.00
Creation of data layers	\$150,817.00
ADOT installation/training	\$15,978.00
Public access module/education	\$7,989.00
Software purchases	\$4,000.00
Equipment purchases	\$32,550.00
Grant administration	\$10,000.00
<b>Total</b>	<b>\$237,000.00</b>

## H. ITEMIZED COST BY AGENCY

Agency	Item/Activity	Unit	Qty	Unit price	Total	Expenses by agency
ASM	Creation of data layers	Hours	6240	\$15.41	\$96,151.50	
	Equipment	Piece	3	\$2,216.67	\$6,650.00	\$102,801.50
ASU	Software development	Hours	1040	\$15.06	\$15,666.00	
	ADOT installation/training	Hours	1040	\$15.36	\$15,978.00	
	Public access module/education	Hours	520	\$15.36	\$7,989.00	
	Software	Piece	4	\$1,000.00	\$4,000.00	
	Equipment	Piece	2	\$2,000.00	\$4,000.00	\$47,633.00
MNA	Creation of data layers	Hours	4680	\$11.68	\$54,665.50	
	Equipment	Piece	2	\$2,200.00	\$4,400.00	\$59,065.50
ADOT	Equipment	Piece	2	\$5,000.00	\$10,000.00	\$10,000.00
SHPO	Equipment	Piece	3	\$2,500.00	\$7,500.00	
	Grant administration	L.sum			\$10,000.00	\$17,500.00
	<b>Total</b>				<b>\$237,000.00</b>	<b>\$237,000.00</b>

## I. VICINITY MAP

Not applicable